STEAM	TO STEAM	1 HUMII	DIFIER :	SCHEDULI	<u> </u>	
TAG	SERVICE	TYPE	MIN. CAPACITY (LB/HR)	MAX STEAM VAPOR LENGTH (FEET)	STEAM PRESSURE TO INLET VALVE (PSIG)	NOTES
7-H107	7-STS107	DUCT MTD	80	3	30	ALL
7-H108	7-STS108	DUCT MTD	140	3	30	ALL

- . MANIFOLD BY HUMIDIFIER MANUFACTURER.
- 2. BASIS OF DESIGN IS ARMSTRONG. ACCEPTABLE MANUFACTURERS ARE DRI-STEEM, AND SPIRAX SARCO. 3. PROVIDE HIGH LIMIT HUMIDISTAT DOWNSTREAM OF DISTRIBUTION MANIFOLD.
- 4. MANIFOLD SHALL BE INSTALLED IN TEMPORARY DUCTWORK DURING CONSTRUCTION. AFTER CONSTRUCTION OF NEW UNIT, REPLACE MANIFOLD TO MOUNT IN FAN SECTION OF UNIT.

	/. U	NII SHALL BE	CONSTRUCT	IED FOR O	UTDOOR USE. PI	ROVIDE NEMA-	-3R CC	NTROL PANEL.		
PUMP	DESIGN R	EQUIRE	MENTS	FOR	TEMPOR	ARY SE	ERVI	CE	Marie Mass Color de Paris Cale de Cale	
								MOTOR		
MARK	SYSTEM AND/OR	TYPE	FLOW	HEAD	TEMPERATURE	SPECIFIC	MAY			REMARKS

MODULAR	AIR	HANDL	ING UI	VIT D	ESIG	N RE	QU	IREN	JENTS	FO	R TEN	IPORA	ry se	ERVICE			·	-			
		FILTER (A	AF-1) DATA			SUPPLY	/ FAN	DATA							CHILLED WA	TER COOLING	COIL)ATA			
UNIT NUMBER	TYPF	MAY 5405				МОТО	DR DA	TA		2100	COOLIN	G LOAD			AIR SIDE DA	TA		WATER	SIDE DA	ATA	REMARKS
ONIT NOMBER	TYPE	MAX. FACE VELOCITY EI	EFFICIENCY	CFM	CFM EXT SP IN WG	MAX. HP	VF	PH Hz	SIARIER	DISC SW WITH	TOTAL MBH	SENS MBH	% OA	EAT (°F) Db/Wb	LAT (°F) Db/Wb	MAX FACE VEL (FPM)	MAX GPM	EWT (°F)	LWT (°F)	MAX.WPD (FT WG)	KEWAKKS
7-AHU107T	VAV	500	MERV 17	12,800	7.25	30	208	3 60	VFD	VFD	788.9	480.9	100	94/79	49/48.8	500	157.3	45	55	20	ALL

- 1. MECHANICAL CONTRACTOR SHALL INSTALL SMOKE DETECTOR IN SUPPLY DUCTS. INTERLOCK SMOKE DETECTOR TO SHUT DOWN FANS ON ALARM (BY CONTROLS CONTRACTOR). PROVIDE AND INSTALL DUCT ACCESS DOORS. 2. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED (POWER AND FIRE ALARM) BY THE ELECTRICAL CONTRACTOR.
- 3. MECHANICAL CONTRACTOR AND UNIT MANUFACTURER SHALL COORDINATE CAREFÚLLY FOR THE DUCT CONNECTIONS TO THE UNITS. SEE PLANS AND UNIT SECTIONS.
- 4. OUTLET VELOCITIES OF FANS SHALL NOT EXCEED 2,700 FEET PER MINUTE.
- 5. UNITS SHALL BE HOSPITAL GRADE DOUBLE WALL CONSTRUCTION WITH 2" THICK SPRAY FOAM PANELS. 6. MAXIMUM APD AND MAXIMUM COIL FACE VELOCITIES SCHEDULED ARE FOR FULL FAN DESIGN AIRFLOW.
- 7. PROVIDE UL-555S OPPOSED BLADE SMOKE DAMPER AT THE DISCHARGE OPENING OF THE AIR HANDLER. DAMPER SHALL BE FULL SIZE OF OPENING AND SHALL NOT CONSTRICT AIR FLOW.
- 8. ACCEPTABLE EQUIVALENT MANUFACTURERS TRANE, YORK AND CARRIER. 9. SUBMIT UNIT COMPONENT STATIC PRESSURE LOSSES TABULATION WITH DIRTY AIR FILTERS.
- 10. UNIT CASINGS SHALL BE CONSTRUCTED FOR 10" WG PRESSURE.
- 11. VFD SHALL BE PROVIDED AND MOUNTED BY DIVISION 23. POWER TO VFD BY DIVISION 26. VFD SHALL BE MOUNTED OUTSIDE THE ASSOCIATED FAN SECTION OF THE AIR HANDLER WITH ACCESS DOOR WITH 6"x6" WINDOW. 12. UNIT SHALL CONSTRUCTED FOR OUTDOOR USE.
- 13. PROVIDE SEPARATE ELECTRICAL CONNECTIONS FOR FAN AND HEATER.

			DISCHARGE PLENUM		FINAL F	ILTER D	ATA		CFM							SUPPLY FAN	DATA							(CHILLED WATE	ER COOLING	COIL DATA					_	
NUMBER	AREA(S) SERVED	TVDE	SECTION	5.0			T	DIFFUSER	UNIT	SPACE	O.A.	RTN								DISC	COOLING	LOAD			AIR SIDE DA	ATA				WATER	R SIDE DAT	A	Many met oncy months and concern
NUMBER	AREA(S) SERVED	IIPE	WITH ACCESS DOOR	MAX. FACI VELOCITY FPM	CLEAN		EFFICIENCY	SECTION	SIZED FOR	CFM	CFM TO SPACE	CFM	MINIMUM SA EXT SP IN WG	FAN TYPE	WHEEL TYPE	MAX OUTLET VEL (FPM)	MIN. HP	VFD REQ'D	STARTER WITH	DISC SW WITH	TOTAL MBH	SENS MBH	EAT (°F) Db/Wb	LAT (°F) Db/Wb		MAX FACE VEL (FPM)	MAX LEV TEMP (°F) FROM AHU	GPM	EWT (°F)		MAX.WPD (FT WG)	MIN ROWS	M/ FF
AHU107 N	NUCLEAR MEDICINE	VAV	YES	500	0.5	1.25	MERV 17	YES	12,800	12,795	4,130	8,665	6.0	CENT.	BIAF	2,700	30	YES	VFD	VFD	788.9	480.9	84/70	49/48.8	1.0	500	54	157.3	45	55	20	8	13
AHU108	LAB SOUTH	CAV	YES	500	0.5	1.25	MERV 17	YES	9,200	6,620	6,620	0	6.25	CENT.	BIAF	2,700	25	YES	VFD	VFD	895.04	441.5	94/79	49/48.8	1.0	500	54	178.4	45	55	20	8	13
AHU108	LAB SOUTH	CAV	YES	500	0.5	1.25	MERV 17	YES	9,200	6,620	6,620	0	6.25	CENT.	BIAF	2,700	25	YES	VFD	VFD	895.04	441.5	94/79	49/48.8	1.0	500	54	178.4	45		55	55 20	55 20 8

				STEA	M-HEATING	COIL DATA					PR	E-FILTER DA	ATA	AF	TER-FILT	TER DATA					RETURN	FAN DATA					AIR	TO AIR P	LATE HEA	AT EXCHA	NGER	
UNIT NUMBER	FACE AND BYPASS DAMPERS	HEATING LOAD (MBH)	EAT (°F)		MAX APD (IN WG)	MAX FACE VEL (FPM)	ENT VAL PRESS	STEAM D STM (°F) Db	00110	MAX PPF CLE	(IN WG)	MAX FACE VEL (FPM	EFFICIENCY	PD (IN WG)	EFFICIENCY	CFM FAN SIZED FOR	EXT SP IN WG	FAN TYPE	WHEEL TYPE	MAX OUTLE VEL (FPM)	5	VFD REQ'D	V PH Hz	LECTRICAL (STARTER WITH	DATA DISC SW WITH	PLT HEX REQ'D	EXH CFM	0.A. *F	R.A. °F	MAX S.P LOSS "WC	NOTES
7-AHU107	NO	270.2	26.5	55	0.35	650	25.0	267	578.3	120 0.2	25 0.6	500	MERV 7	0.14	0.50	MERV 13	12,800	3.2	CENT.	BIAF	2,700	20	YES	208 3 60	VFD	VFD	NO	N.A.	N.A.	N.A.	N.A.	A1.1
7-AHU108	NO	197.9	26.5	55	0.35	650	25.0	267	423.5	120 0.2	25 0.6	500	MERV 7	0.14	0.50	MERV 13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.			_	YES	9,200	26.5	74	1.0	ALL

- 1. MECHANICAL CONTRACTOR SHALL INSTALL SMOKE DETECTOR IN SUPPLY DUCTS. INTERLOCK SMOKE DETECTOR TO SHUT DOWN FANS ON ALARM (BY CONTROLS CONTRACTOR). 2. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED (POWER AND FIRE ALARM) BY THE ELECTRICAL CONTRACTOR. MOUNTING AND DUCT ACCESSORIES BY MECHANICAL
- CONTRACTOR. MECHANICAL CONTRACTOR AND UNIT MANUFACTURER SHALL COORDINATE CAREFULLY FOR THE DUCT CONNECTIONS TO THE UNITS. SEE PLANS AND UNIT SECTIONS.
- PROVIDE SEPARATE POWER CIRCUITS FOR SUPPLY AIR FAN AND RETURN AIR FAN. PROVIDE MARINE LIGHTS FOR FAN SECTIONS, FILTER SECTIONS, AND COIL SECTIONS. PROVIDE A DUPLEX SERVICE RECEPTACLE ON THE EXTERIOR OF THE UNIT. PROVIDE A 120V
- CIRCUIT TO POWER MARINE LIGHTS AND SERVICE RECEPTACLE.
- PROVIDE 7" HIGH BASE RAIL FRAME UNDER UNIT. DAMPERS SHALL BE OPPOSED BLADE TYPE.
- 8. UNITS SHALL BE HOSPITAL GRADE DOUBLE WALL CONSTRUCTION WITH 2" THICK SPRAY FOAM PANELS. 9. MAXIMUM APD AND MAXIMUM COIL FACE VELOCITIES SCHEDULED ARE FOR FULL FAN DESIGN AIRFLOW.

- 10. PROVIDE UL-555S OPPOSED BLADE SMOKE DAMPER AT THE DISCHARGE OPENING OF THE AIR HANDLER. DAMPER SHALL BE FULL SIZE OF OPENING AND SHALL NOT CONSTRICT AIR FLOW.
- 11. PROVIDE SERVICE RECEPTACLE MOUNTED ON EXTERIOR OF UNIT. 12. BASIS OF DESIGN IS TRANE. ACCEPTABLE EQUIVALENT MANUFACTURERS INNOVENT, YORK, AND CARRIER.
- 13. SCHEDULED MAXIMUM AIR PRESSURE DROP FOR STEAM PREHEAT COIL. 14. SUBMIT UNIT COMPONENT STATIC PRESSURE LOSSES TABULATION WITH DIRTY AIR FILTERS.
- 15. UNIT CASINGS SHALL BE CONSTRUCTED FOR A MINIMUM OF 10" WG PRESSURE
- 16. VFD SHALL BE PROVIDED AND MOUNTED BY DIVISION 23. POWER TO VFD BY DIVISION 26. SEE PLANS FOR VFD MOUNTING LOCATIONS.
- 17. EACH FAN SHALL BE PROVIDED WITH AIR FLOW MEASURING DEVICE.
- 18. PROVIDE WITH ULTRAVIOLET LAMPS FOR 120V/10 AT 15 AMPS. CIRCUIT BY ELECTRICAL CONTRACTOR.
- 18. PROVIDE SECONDARY DRAIN PAN PER DETAIL ON M502.

REVISION NO.	REVISION DESCRIPTION		Department of Volence Affaire	·	Architect/Engineer Address
			Department of Veterans Affairs	HITTE OF LOUIS	
			Alexandria VA Health Care System	***************************************	Harrell
				JOSEPH E. HUTCHISON	Huller,



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	Recon	nmended Approvals:	Drawing Title
	1. MEDICAL DIRECTOR	6. OPERATIONS SERVICE LINE MANAGER	MECHANICAL SCHEDULES
	2. ASSOCIATE DIRECTOR	7. INFECTION CONTROL MANAGER	
	3. CHIEF OF STAFF	8. SAFETY MANAGER	FINAL BID DOCU
	4. ASSOC. DIRECTOR	9. GENERAL ENGINEER	
	5. SERVICE LINE MGRS.	10. COR	
æ			

SCHEDULES	[]	- PROJECT <i>A</i> & 7-AHU108	\:
FINAL BID DOCUMENTS	Drawn DWS	Building Number 7	AutoCAD File Name
	Checked A A	Reviewed	Const. Contract No.

DESIGN BUILDING 7 AIR HANDLER

SEPT. 27, 2013 Project Number 502-12-201

By Date Revisions

one eighth inch = one foot

0 4 8 16



M601